

Abstract:

There is disclosed a hard alloy which comprises 5 to 50% by volume of a metallic binder phase comprising at least one
5 element selected from cobalt, nickel and iron as a main component, 0 to 40% by volume of a cubic crystal compound comprising at least one compound selected from a carbide, nitride and mutual solid solution of a metal of Group IVB, VB or VIB of the Periodic Table, and the reminder being
10 hexagonal tungsten carbide and inevitable impurities,
wherein at least one specific element(s) selected from the group consisting of titanium, zirconium, hafnium, vanadium, niobium, tantalum, chromium, molybdenum, manganese and rhenium is dissolved in the crystal of the
15 hexagonal tungsten carbide as a solid solution in an amount of 0.1 to 3.0% by weight based on the amount of the tungsten carbide.